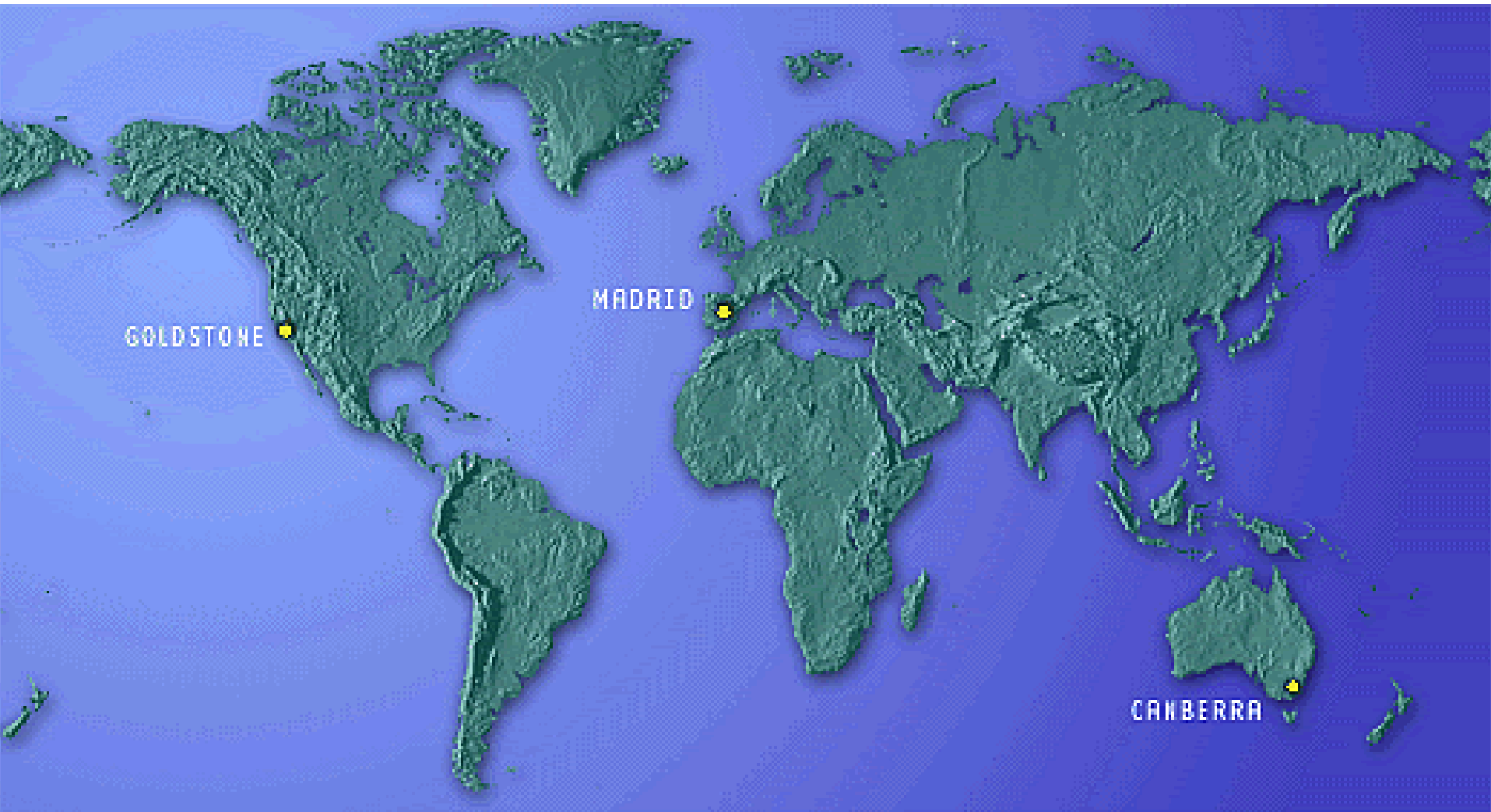


# DSN Antenna Downtime Status and Forecast



<http://rapweb.jpl.nasa.gov/planning>

# Antenna Downtime Status and Forecast

## The following downtimes for 2008.

- ❑ SPC-60 is requesting additional time for Commercial Power Installation no earlier than July 8, 2008. They are requesting 2 three day blocks or 3 two day blocks on off shift hours.
  - ❑ DOYS 190, 191 and 192 have been scheduled.
  - ❑ Continue to negotiate for week 30.
- ❑ SPC-40 is requesting complex downtime for A Station Power Grid.
  - ❑ Week 22 DOY 153 2200-0200 scheduled
  - ❑ Week 35 DOY 238 2200-0600 scheduled
  - ❑ Week 38 DOY 266 2200-0400 proposed
  - ❑ Week 40 DOY 273 2200-0400 proposed
- ❑ DSS-14 Grouting for week 31 in 2008 for 5 days.
  - ❑ The grouting has been placed in the schedule and all conflicts have been resolved.
- ❑ DSS-14 Grouting has been proposed for week 38 in 2008 for 3 days.
- ❑ DSS-14 Grouting has been proposed for week 44 in 2008 for 3 days.
- ❑ DSS-34 Ka-Band Phase 2 downtime beginning in week 29 is requesting an addition 2 weeks to complete the task.
  - ❑ A notification has been sent to the projects of the extension.
- ❑ DSS-55 downtime for Paint Repair beginning in June 2008 has been moved to September weeks 36 - 41.
- ❑ DSS-54 downtime for ACQ Aid Installation is scheduled for October, weeks 42 and 43 of 2008.
  - ❑ Due to Cassini critical support, the proposed downtime DOYs would be 287 – 290 and 295 – 298. Will check for TERRA views.

# Antenna Downtime Status and Forecast

## Downtime request for 2008

**The following proposals for 14 hour complex downtimes are requested by GDSCC.**

- ❑ Corrective maintenance “G86/G81 Transfer Switch Electrical Maintenance” in May has been changed to NET September 2008 week 36.
- ❑ Preventative maintenance “G91 2400V Switchgear Electrical Maintenance” in June has been changed to NET September 2008 week 38.
- ❑ Preventative maintenance “Echo Tie-Line Electrical Maintenance” in September has been changed to NET October 2008 week 40.
- ❑ Preventative maintenance “Apollo Tie-Line Electrical Maintenance” in October has been changed to NET November 2008 week 43.
- ❑ Preventative maintenance “SPC-10 Electrical Maintenance” in November week 45.

### **Additional time is being requested**

- ❑ Two 8 hour complex downtimes in December 2008 for cutover, final connection and testing of the new G86 Substation, Mars Site.
- ❑ Fourteen 4 hour periods between July 2009 and January 2010 for testing of G86 Substation, Mars Site.

# Antenna Downtime Status and Forecast

**The following proposals for antenna downtimes are requested.**

- ❑ **MDSCC Annual Antenna Inspections including Annual Servo Testing at DSS-63, -65, -54 and -55 as follows:**
  - ❑ Servo Testing for DSS-55 is scheduled for DOY 192/0600-1400 week 28
  - ❑ Servo Testing for DSS-63 is scheduled for DOY 193/0600-1400 week 28
  - ❑ Servo Testing for DSS-54 is scheduled for DOY 196/0600-1400 week 29
  - ❑ Servo Testing for DSS-65 is scheduled for DOY 199/0600-1400 week 29
  - ❑ Servo Testing for DSS-63 is scheduled for DOY 203/0600-1400 week 30 (will be deleted if week 28 is negotiated)

**NOTE: The Servo Testing may be adjusted/moved based on the SPC-60 Commercial Power Installation proposal.**

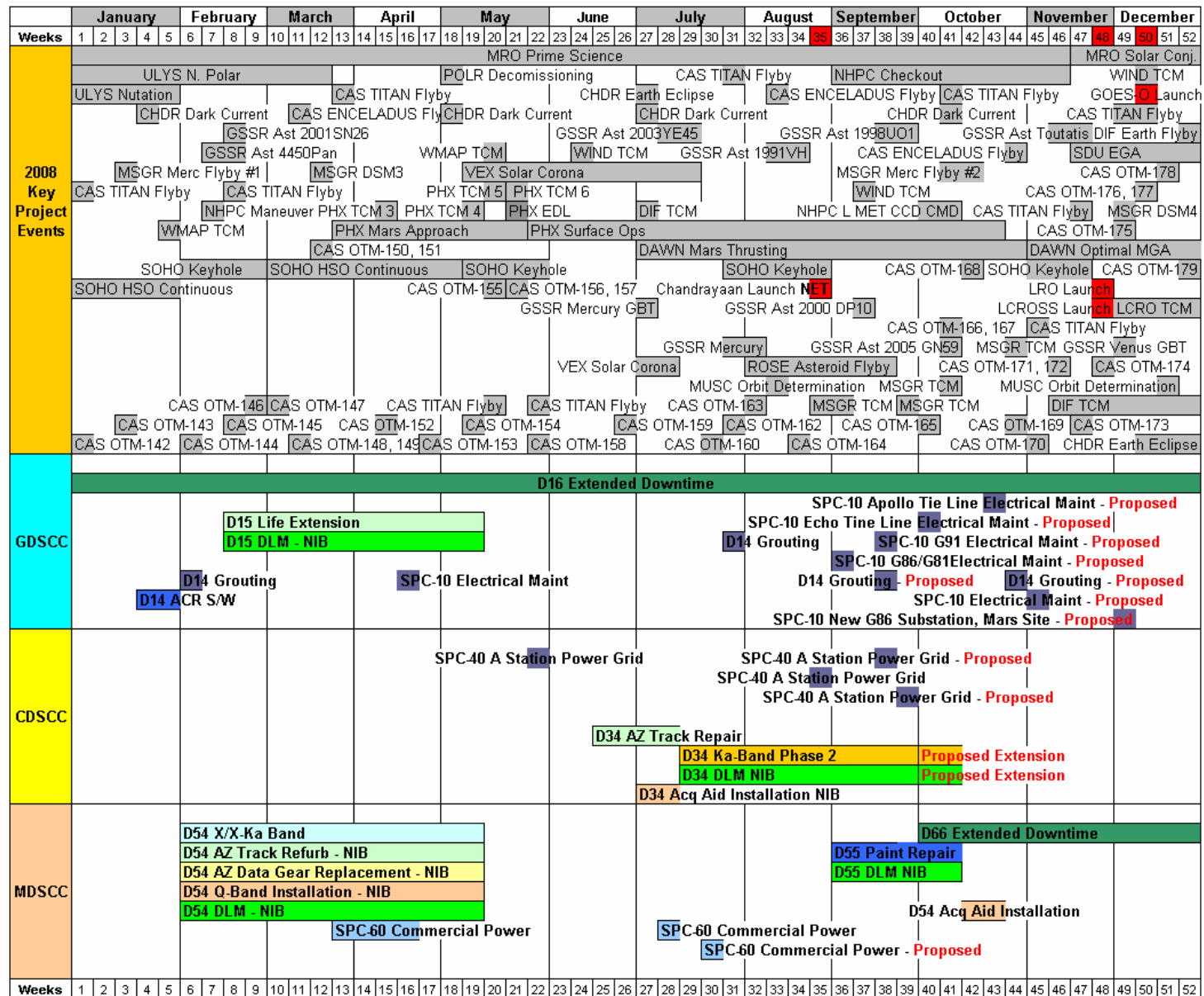
- ❑ **HEF Transmitter Manifold Installation at DSS-15, -45 and -65 between July, 2008 and June 2009 not to be scheduled concurrently with DSS-15 being scheduled first.**

# Antenna Downtime Status and Forecast

## The following downtimes are for 2009 – 2010

- ❑ DSS-43 downtime for Life Extension and Depot Level Maintenance starting October 3, 2008 has been moved to start January 5, 2009 and proposed to end April 12, 2009 weeks 2 – 15 which adds an extra two weeks to the end time.
- ❑ DSS-63 downtime for Life Extension has been shortened to May 4, through August 2, 2009, weeks 19 - 31.
- ❑ DSS-24 downtime for painting has been proposed for April – May of 2009, weeks 14 - 22. A study is being performed.
  - ❑ Could be impacted if Kepler launch slips.
- ❑ DSS-34 downtime for Azimuth Track Replacement has been proposed for 2010, local summer.
  - ❑ It is suggested to move to October, November of 2009 weeks 41-47.
- ❑ DSS-65 downtime for Life Extension Elevation for October, November of 2009 has been proposed for weeks 31 - 41 in 2010.
- ❑ As a result of the reduction of downtime for DSS-43 & DSS-63 in 2008 & 2009, it is requested to recover that time in 2010, local spring, summer or fall after DSS-14 RTS.
  - ❑ DSS-43 is proposed for August 30 to November 29, 2010 weeks 35-48
  - ❑ DSS-63 is proposed for February 28 to May 29, 2011 weeks 9 -21.
- ❑ DSS-15 downtime for Pintle Bearing has been proposed for May 3, through June 27, 2010, weeks 18 - 25.

# Antenna Downtime Status and Forecast 2008

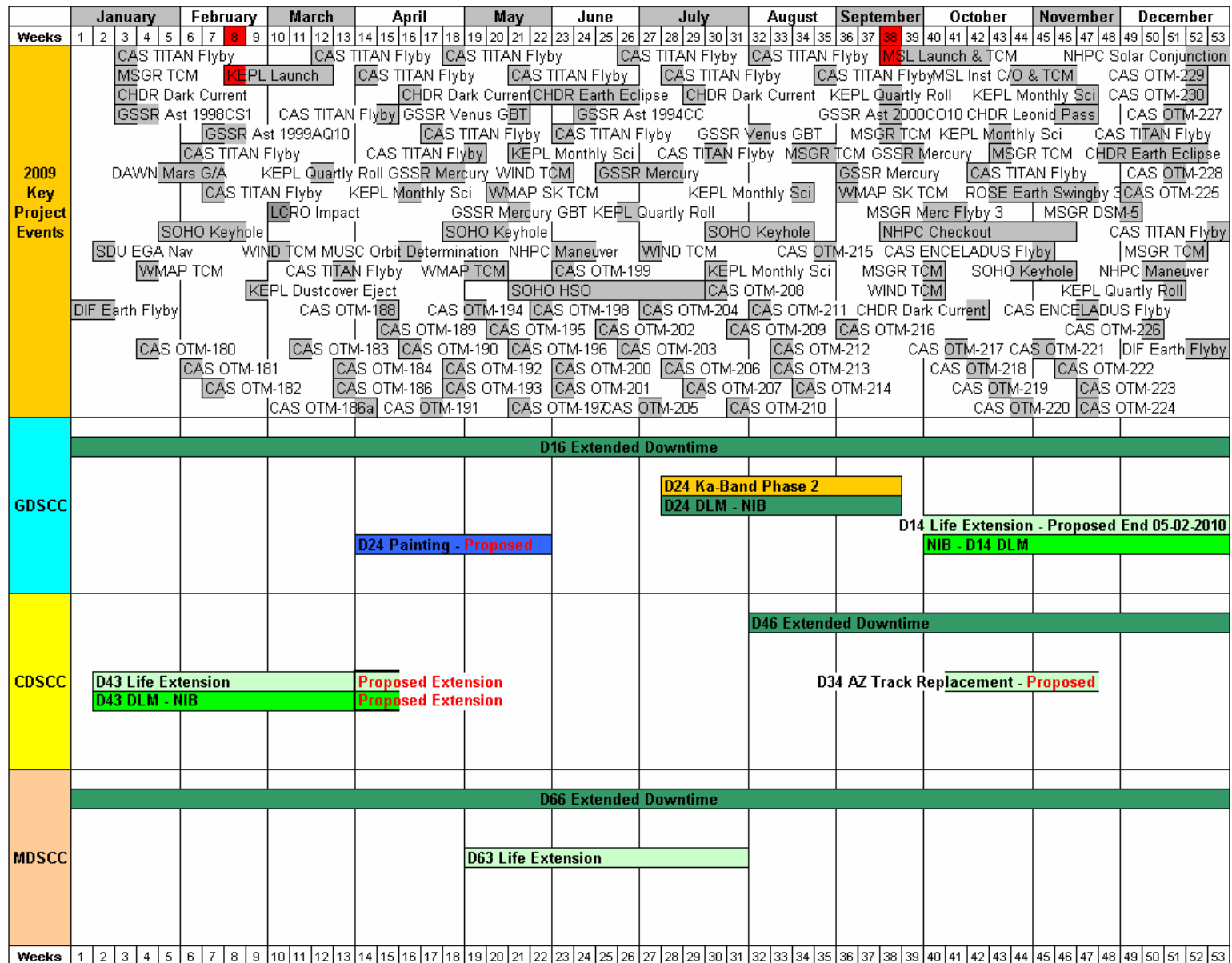


Revised: June 2, 2008

## DSN Major Downtimes by Date 2008

2008							
Site	Description	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 34	AZ Track Repair	06/17/2008 00:00	07/13/2008 23:59	27	25 - 28	169	195
DSS 34	Acq Aid Installation - NIB	06/30/2008 00:00	07/13/2008 23:59	14	27 - 28	182	195
SPC 60	Commercial Power Installation	07/08/2008 18:00	07/09/2008 06:00	1	28 - 28	190	190
SPC 60	Commercial Power Installation	07/09/2008 20:05	07/10/2008 08:05	1	28 - 28	191	191
SPC 60	Commercial Power Installation	07/10/2008 18:00	07/11/2008 06:00	1	28 - 28	192	192
DSS 34	Ka-Band Phase 2 Install	07/14/2008 00:00	09/29/2008 23:59	77	29 - 39	196	272
DSS 34	Depot Level Maintenance - NIB	07/14/2008 00:00	09/29/2008 23:59	77	29 - 39	196	272
SPC 60	Commercial Power Installation - Proposed	07/21/2008 19:15	07/22/2008 07:15	1	30 - 30	203	203
SPC 60	Commercial Power Installation - Proposed	07/22/2008 18:00	07/23/2008 06:00	1	30 - 30	204	204
SPC 60	Commercial Power Installation - Proposed	07/23/2008 21:10	07/24/2008 09:10	1	30 - 30	205	205
SPC 60	Commercial Power Installation - Proposed	07/24/2008 18:40	07/25/2008 06:40	1	30 - 30	206	206
DSS 14	Grouting	07/29/2008 00:00	08/03/2008 23:59	6	31 - 31	211	216
SPC 40	A STA Power Grid	08/25/2008 08:00	08/25/2008 16:00	0	35 - 35	238	238
DSS 14	Grouting - Proposed	08/27/2008 00:00	08/29/2008 23:59	3	35 - 35	240	242
DSS 55	Paint Repair	09/01/2008 00:00	10/12/2008 23:59	42	36 - 41	245	286
DSS 55	Depot Level Maintenance - NIB	09/01/2008 00:00	10/12/2008 23:59	42	36 - 41	245	286
SPC 10	G86/G81 Electrical Maintenance	09/01/2008 08:30	09/01/2008 22:30	0	36 - 36	245	245
SPC 10	G91 Electrical Maintenance	09/15/2008 08:30	09/15/2008 22:30	0	38 - 38	259	259
SPC 40	A STA Power Grid - Proposed	09/22/2008 08:00	09/22/2008 14:00	0	39 - 39	266	266
SPC 40	A STA Power Grid - Proposed	09/29/2008 08:00	09/29/2008 14:00	0	40 - 40	273	273
DSS 66	Extended Downtime	09/29/2008 16:00	12/31/2019 23:59	4111	40 - 53	273	365
SPC 10	Echo Tie Line Electrical Maintenance	10/01/2008 08:30	10/01/2008 22:30	0	40 - 40	275	275
DSS 54	Acq Aid Installation	10/13/2008 00:00	10/16/2008 23:59	4	42 - 42	287	290
DSS 54	Acq Aid Installation	10/18/2008 00:00	10/21/2008 23:59	4	42 - 43	292	295
SPC 10	Apollo Tie-Line Electrical Maintenance	10/20/2008 08:30	10/20/2008 22:30	0	43 - 42	294	293
SPC 10	SPC-10 Electrical Maintenance	11/03/2008 08:30	11/03/2008 22:30	0	45 - 44	308	307
DSS 14	Grouting Proposed	11/05/2008 00:00	11/07/2008 11:59	2	45 - 45	310	311

# Antenna Downtime Status and Forecast 2009



Revised: June 2, 2008



## DSN Major Downtimes by Date 2009

2009							
Site	Description	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 43	Life Extension	01/05/2009 00:00	03/29/2009 23:59	84	02 - 13	005	088
DSS 43	Depot Level Maintenance – NIB	01/05/2009 00:00	03/29/2009 23:59	84	02 - 13	005	088
DSS 43	Life Extension Addition - Proposed	03/30/2009 00:00	04/12/2009 23:59	14	14 - 15	089	102
DSS 43	Depot Level Maintenance Addition - Proposed	03/30/2009 00:00	04/12/2009 23:59	14	14 - 15	089	102
DSS 24	Painting - Proposed	03/30/2009 00:00	05/31/2009 23:59	63	14 - 22	089	151
DSS 63	Life Extension	05/04/2009 00:00	08/02/2009 23:59	91	19 - 31	124	214
DSS 24	Ka-Band Phase 2 Install	07/06/2009 00:00	09/21/2009 23:59	77	28 - 38	187	263
DSS 24	Depot Level Maintenance - NIB	07/06/2009 00:00	09/21/2009 23:59	77	28 - 38	187	263
DSS 46	Extended Downtime	08/03/2009 16:00	12/31/2019 23:59	3803	32 - 53	215	365
DSS 14	Life Extension	10/03/2009 00:00	03/28/2010 23:59	177	40 - 12	276	087
DSS 14	Depot Level Maintenance - NIB	10/03/2009 00:00	03/28/2010 23:59	177	40 - 12	276	087
DSS 34	AZ Track Replacement - Proposed	10/05/2009 00:00	11/22/2009 23:59	48	41 - 47	278	325

# Antenna Downtime Status and Forecast 2010

	January				February				March				April				May				June				July				August				September				October				November				December											
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52				
2010 Key Project Events	GSSR Mars																GSSR Mercury				GSSR Ast 1999 MN				GSSR Venus GBT				GSSR Venus GBT				GSSR Ast 1998 U01				GSSR Mercury																			
	CHDR Dark Current								CHDR Dark Current				CHDR Earth Eclipse				GSSR Mercury				DIF TCM				CHDR Dark Current				CHDR Dark Current				GSSR Ast 2003 UV11				GSSR Ast 2002 VE68				CHDR Earth Eclipse															
	DIF Earth Flyby																MUSC Re-entry								CHDR Dark Current				CHDR Dark Current				DIF Encounter				CHDR Earth Eclipse																			
	DIF TCM								KEPL Qtrly. Roll				MSL INST Checkout 2				KEPL Qtrly. Roll												DIF Encounter				CHDR Earth Eclipse																							
	SOHO Keyhole								SOHO Keyhole																								KEPL Qtrly. Roll																							
	WIND TCM								WIND TCM				KEPL Monthly Sci				WIND TCM				KEPL Monthly Sci				WIND TCM				KEPL Monthly Sci				WIND TCM				KEPL Monthly Sci																			
	KEPL Monthly Sci								KEPL Monthly Sci				KEPL Monthly Sci				MSL Approach				MSL Surface Ops				MRO MSL Support																															
									MSL FS Checkout 2				MSL TCM				MSL TCM																KEPL Monthly Sci																							
									MSGR TCM				MSGR TCM				MSL Inst Checkout				MSL EDL												MSGR TCM				NHPC Solar Conjunction																			
																					NHPC Checkout				NHPC Checkout																ROSE Asteroid LutetiaFlyby				ROSE DSM-2											
	D16 Extended Downtime																																																							
	D14 Life Extension - Start 10-03-2009												Proposed Extension																																											
	NIB - D14 DLM												Proposed Extension																																											
																			D25 Ka U/L																																					
																		NIB - D25 DLM																																						
																		D15 Pintle Bearing - Proposed																																						
GDSCC																																																								
CDSCC	D46 Extended Downtime																																																							
																																			D43 70m Power and HBA Upgrades - Proposed																					
MDSCC																																																								
	D66 Extended Downtime																																																							
																																							D54 Ka-Band Phase 2 - Proposed																	
																														D65 Life Extension Elevation - Proposed																										
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52				

Revised: June 2, 2008

## DSN Major Downtimes by Date 2010

2010							
Site	Description	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 25	Ka-Band Uplink Install	03/29/2010 00:00	04/18/2010 23:59	21	13 - 15	088	108
DSS 25	Depot Level Maintenance - NIB	03/29/2010 00:00	04/18/2010 23:59	21	13 - 15	088	108
DSS 14	Life Extension Addition - Proposed	03/29/2010 00:00	05/02/2010 23:59	35	13 - 17	088	122
DSS 14	Depot Level Maintenance Addition - Proposed	03/29/2010 00:00	05/02/2010 23:59	35	13 - 17	088	122
DSS 15	Pintle Bearing - Proposed	05/31/2010 00:00	07/25/2010 23:59	56	22 - 29	151	206
DSS 25	Depot Level Maintenance - NIB	08/02/2010 00:00	08/29/2010 23:59	28	31 - 34	214	241
DSS 65	Life Extension Elevation - Proposed	08/02/2010 00:00	10/04/2010 23:59	63	31 - 39	214	276
DSS 25	Ka-Band Uplink Install	08/02/2010 00:00	08/29/2010 23:59	28	31 - 34	214	241
DSS 43	70m Power and HBA Upgrades - Proposed	08/30/2010 00:00	11/28/2010 11:59	90	35 - 47	242	331
DSS 54	Ka-Band Phase 2 Install - Proposed	10/04/2010 00:00	12/20/2010 23:59	77	40 - 50	277	353

# Antenna Downtime Status and Forecast 2011

	January				February				March				April				May				June				July				August				September				October				November				December								
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	
2011 Key Project Events	CHDR Dark Current								CHDR Dark Current																CHDR Dark Current				JUNO Launch												GSSR Asteroid 2000 YA				CHDR Dark Current								
													KEPL Qtrly. Roll												KEPL Qtrly. Roll								KEPL Qtrly. Roll								KEPL Qtrly. Roll												
	MRO Relay																																																				
									ROSE DSH Entry																												NHPC DDOR				NHPC DDOR												
	ROSE DSM-2												Wind TCM																Wind TCM												NHPC Checkout												
GDSCC	D16 Extended Downtime																																																				
CDSCC	D46 Extended Downtime																																																				
MDSCC	D66 Extended Downtime																																																				
									D63 70m Power and HBA Upgrades - Proposed																																												
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	

Revised: June 2, 2008

## DSN Major Downtimes by Date 2011

2011							
Site	Description	Start	End	Duration (Days)	Weeks	Start DOY	End DOY
DSS 63	70m Power and HBA Upgrades - Proposed	02/28/2011 00:00	05/29/2011 23:59	90	09 - 21	059	148

# Antenna Downtime Status and Forecast

## DSN Resource Implementation Planning Matrix by Subnet

Complex	Station	Subnet	S-Band		X-Band		Ka-Band		Ka Phase 2
			Down	Up	Down	Up	Down	Up	
10	DSS-16	26M	✓	N/A	N/A	N/A	N/A	N/A	N/A
40	DSS-46	26M	✓	✓	N/A	N/A	N/A	N/A	N/A
60	DSS-66	26M	✓	✓	N/A	N/A	N/A	N/A	N/A
10	DSS-27	34HSB	✓	✓	N/A	N/A	N/A	N/A	N/A
10	DSS-24	34B1	✓	✓	✓	✓	N/A	N/A	09/21/09
40	DSS-34	34B1	✓	✓	✓	✓	✓	N/A	09/29/08
60	DSS-54	34B1	✓	✓	✓	✓	04/15/08	N/A	09/27/10
10	DSS-25	34B2	N/A	N/A	✓	✓	✓	08/01/10	N/A
10	DSS-26	34B2	N/A	N/A	✓	✓	✓	N/A	N/A
60	DSS-55	34B2	N/A	N/A	✓	✓	✓	N/A	N/A
10	DSS-15	34HEF	✓	N/A	✓	✓	N/A	N/A	N/A
40	DSS-45	34HEF	✓	06/01/08	✓	✓	N/A	N/A	N/A
60	DSS-65	34HEF	✓	06/01/08	✓	✓	N/A	N/A	N/A
10	DSS-14	70M	✓	✓	✓	✓	N/A	N/A	N/A
40	DSS-43	70M	✓	✓	✓	✓	N/A	N/A	N/A
60	DSS-63	70M	✓	✓	✓	✓	N/A	N/A	N/A
N/A = Capability Not Planned    xx/xx/xx = Capability Date Recently Changed    As of: 02/07/08 ✓ ✓ ✓ = Capability Recently Exists    ✓ = Capability Exists									